



Laboratory Report Number: L12020592

Mark Lyon Environmental Waste Solutions 2440 Louisiana Blvd Albuquerque, NM 87110

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact: Stephanie Mossburg – Team Chemist/Data Specialist (740) 373-4071 Stephanie.Mossburg@microbac.com

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on March 05 2012

David E. Vandenberg

David Vandenberg – Managing Director

State of Origin: NM

Accrediting Authority: N/A ID:N/A

QAPP: DOD Ver 4.1





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Lab Report #: L12020592 Lab Project #: 3005.011

Project Name: White Sands MR

Lab Contact: Stephanie Mossburg

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

The following discrepancies were noted:

Discrepancy	Resolution
Received 2 Trip Blanks not on the Chain of Custody. Logged at end of SDG.	

Coolers								
	Cooler #	Temperature Gun	Temperature	COC#	Airbill #			
	0016642	G	0.0		1002241152560004575000874824307370			

spection Chec	klist	
#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	No
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct perservatives used? (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	Yes
12	Were VOA samples free of headspace (less than 6mm)?	Yes



Lab Report #: L12020592 **Lab Project** #: 3005.011

Project Name: White Sands MR

Lab Contact: Stephanie Mossburg

Samples Received							
Client ID	Laboratory ID	Date Collected	Date Received				
STP-WC-0212	L12020592-01	02/17/2012 12:40	02/18/2012 09:02				
HTA-WC-0212	L12020592-02	02/17/2012 12:45	02/18/2012 09:02				
TRIP BLANK	L12020592-03	02/17/2012 00:01	02/18/2012 09:02				



Login Number: L12020592 Department: Volatiles Analyst: Anthony Canter

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met. **Sample Analysis:** All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: Dichlorodifluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes:

Dichlorodifluoromethane, Vinyl Acetate. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: 2-Hexanone, Acetone, Dichlorodifluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met. **Other:** Samples 01, were run at a dilution.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected

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via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 42812

Approved By: Michael Albertson

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Login Number: L12020592 Department: Semivolatiles Analyst: Cassie A. Augenstein

METHOD

Preparation 3510C

Analysis SW-846 8270C/40 CFR 264 App. IX

HOLDING TIMES

Sample Preparation: All holding times were met. **Sample Analysis:** All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: 2,4-Dinitrophenol, 4,6-Dinitro-2-Methylphenol, Pentachlorophenol. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: Benzoic Acid, Hexachlorocyclopentadiene. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group.

SAMPLES

Samples: All acceptance criteria were met.

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and

benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the

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system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

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Narrative ID: 42898

Approved By: Mike Cochran



Login Number: L12020592 Department: Conventionals Analyst: Dorothy Payne

METHOD

Analysis SW846 9040C,9045D/EPA 150.1/SM4500-H B (pH)

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met. **Duplicates:** All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 42681

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Approved By: Deanna Hesson



Login Number: L12020592

Department: Metals **Analyst:** Kim Rhodes

METHOD

Preparation: SW-846 3005 Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met. **Sample Analysis:** All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG390680 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 42737

Approved By: Sheri Pfalzgraf

Sheri L. Habour



Login Number: L12020592

Department: Metals **Analyst:** Erin Long

METHOD

Preparation: SW-846 3015 Analysis: SW-846 6020 HOLDING TIMES

Sample Preparation: All holding times were met. **Sample Analysis:** All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration: WG390226 - The continuing calibration verification analyzed on 21-FEB-2012 at 18:38 yielded a noncompliant result for selenium. Since this CCV bracketed compliant interference check standards and did not bracket any client or batch QA/QC samples, no further action was taken.

Continuing Calibration Blank: All acceptance criteria were met.

Low Level Check: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG390226 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 42518

Approved By: Sheri Pfalzgraf

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Login Number: L12020592 Department: Metals - AA Analyst: Pierce Morris

METHOD

Preparation: SW-846 7470 Analysis: SW-846 7470

Sample Preparation: All holding times were met. **Sample Analysis:** All holding times were met.

PREPARATION

HOLDING TIMES

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: WG390302 - The continuing calibration blank analyzed on 22-FEB-2012 at 14:28 yielded a noncompliant recovery for mercury. The CCB was reanalyzed prior to sample analysis and was compliant mercury.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG390302 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 42616

Approved By: Sheri Pfalzgraf

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Certificate of Analysis

Sample #: L12020592-01 PrePrep Method: N/A Instrument: HPMS11

Client ID: STP-WC-0212 Prep Method: 5030B/5030C/5035A Prep Date: N/A

Analytical Method: 8260B Cal Date: 01/19/2012 19:25 Matrix: Water Run Date: 02/24/2012 14:24 Workgroup #: WG390563 Analyst: TMB

Collect Date: 02/17/2012 12:40 Dilution: 10 File ID: 11M81410

1,1,2,2-Tertachloroethane	Sample Tag: DL01	Units: ug/L				
1,1,2,2-Tetrachloroethane	Analyte	CAS#	Result	Qual	LOQ	LOD
1,12-Trichloroethane 79-00-5 U 10.0 2.50 1,1-Dichloroethane 75-34-3 U 10.0 1.25 1,1-Dichloroethane 75-35-4 U 10.0 5.00 1,2-Brichloropene 96-18-4 U 10.0 5.00 1,2-Brichloropenae 120-82-1 U 10.0 2.00 1,2-Brichloropenae 96-18-4 U 10.0 2.50 1,2-Brichloropenae 96-18-8 U 10.0 2.50 1,2-Dibromo-3-chloropropane 96-12-8 U 20.0 10.0 1,2-Dibromo-3-chloropropane 96-12-8 U 10.0 2.50 1,2-Dichlorobenzene 106-93-4 U 10.0 2.50 1,2-Dichloropenzene 95-50-1 U 10.0 1.25 1,2-Dichloropenzene 107-06-2 U 10.0 2.50 1,2-Dichloropenzene 78-87-5 U 10.0 2.50 1,3-Dichlorobenzene 108-67-8 U 10.0 2.50 1,3-Dichlorobenzene 108-67-8 U 10.0 2.50 1,3-Dichlorobenzene 106-46-7 U 10.0 2.50 1,4-Dichloropenzene 106-46-7 U 10.0 1.25 2-Butanone 78-93-3 U 50.0 2.50 2-Chlorotoluene 106-43-4 U 10.0 1.25 2-Hexanone 591-78-6 U 50.0 2.50 2-Chlorotoluene 106-43-4 U 10.0 2.50 2-Chlorotoluene 106-43-4 U 10.0 2.50 2-Chlorotoluene 108-61 U 50.0 2.50 2-Chlorotoluene 108-61 U 10.0 1.25 2-Chloromothane 75-27-4 U 10.0 1.25 2-Chlorotoluene 75-25-2 U 10.0 5.00 2-Chlorotoluene 108-90-7 U 10.0 1.25 2-Chlorotoluene 108-90-7 U 10.0 1.25 2-Chlorotoluene 108-90-7 U 10.0 1.25 2-Chl	1,1,1-Trichloroethane	71-55-6		U	10.0	2.50
1.1-Dichloroethane	1,1,2,2-Tetrachloroethane	79-34-5		U	10.0	2.00
1.1-Dichloroethene	1,1,2-Trichloroethane	79-00-5		U	10.0	2.50
1,2,3-Trichloropropane 96-18-4 U 10.0 5.00 1,2,4-Trinchlorobenzene 120-82-1 U 10.0 2.00 1,2,4-Trimethylbenzene 95-63-6 U 10.0 2.50 1,2,1-Dichloromo-3-chloropropane 96-12-8 U 20.0 10.0 1,2-Dichlorobenzene 106-93-4 U 10.0 2.50 1,2-Dichlorobenzene 95-50-1 U 10.0 1.25 1,2-Dichloropropane 98-50-1 U 10.0 2.50 1,2-Dichloropropane 78-87-5 U 10.0 2.50 1,2-Dichloropropane 78-87-5 U 10.0 2.50 1,3-Dichlorobenzene 108-67-8 U 10.0 2.50 1,3-Dichlorobenzene 106-46-7 U 10.0 2.50 1,3-Dichlorobenzene 106-46-7 U 10.0 2.50 1,4-Dichlorobenzene 106-46-7 U 10.0 2.50 1,4-Dichlorobenzene 78-93-3 U 50.0 25.0 2-Chlorotoluene 95-49-8 U 10.0 1.25 2-Chlorotoluene 591-78-6 U 50.0 25.0 2-Chlorotoluene 106-43-4 U 10.0 2.50 2-Chlorotoluene 108-61 U 50.0 25.0 2-Chlorotoluene 77-43-2 U 10.0 1.25 2-Chlorotoluene 77-43-2 U 10.0 2.50 2-Chlorotoluene 77-27-4 U 10.0 2.50 2-Chlorotomomethane 77-27-4 U 10.0 2.50 2-Chlorotomomethane 78-83-9 U 10.0 5.00 2-Chlorotomomethane 78-83-9 U 10.0 5.00 2-Chlorotomomethane 78-83-9 U 10.0 5.00 2-Chlorotomomethane 78-93-5 U 10.0 5.00 2-Chlorotomomethane 78-83-9 U 10.0 5.00 2-Chlorotomomethane 108-90-7 U 10.0 5.00 2-Chloroto	1,1-Dichloroethane	75-34-3		U	10.0	1.25
1,2,4-Trichlorobenzene 120-82-1 U 10.0 2.00 1,2,4-Trichlorobenzene 95-63-6 U 10.0 2.50 1,2-Dibromo-3-chloropropane 96-12-8 U 20.0 10.0 1,2-Dibromoethane 106-93-4 U 10.0 2.50 1,2-Dichlorobenzene 95-50-1 U 10.0 2.50 1,2-Dichloropropane 107-06-2 U 10.0 2.50 1,2-Dichloropropane 78-87-5 U 10.0 2.50 1,3-Dichlorobenzene 108-67-8 U 10.0 2.50 1,3-Dichlorobenzene 541-73-1 U 10.0 2.50 1,4-Dichlorobenzene 106-46-7 U 10.0 2.50 1,4-Dichlorobenzene 106-46-7 U 10.0 1.25 2-Butanone 78-93-3 U 50.0 25.0 2-Chlorotoluene 95-49-8 U 10.0 1.25 2-Hexanone 591-78-6 U 50.0 25.0 3-Hexanone 106-43-4 U 10.0 2.50 3-Hexanone	1,1-Dichloroethene	75-35-4		U	10.0	5.00
1.2.4-Trimethylbenzene 95-63-6 U 10.0 2.50 1.2-Dibromo-3-chloropropane 96-12-8 U 20.0 10.0 1.2-Dibromoethane 106-93-4 U 10.0 2.50 1.2-Dichlorobenzene 95-50-1 U 10.0 1.25 1.2-Dichlorobenzene 107-06-2 U 10.0 2.50 1.2-Dichloropropane 78-87-5 U 10.0 2.50 1.3-Dichlorobenzene 108-67-8 U 10.0 2.50 1.3-Dichlorobenzene 541-73-1 U 10.0 2.50 1.3-Dichlorobenzene 106-46-7 U 10.0 2.50 1.4-Dichlorobenzene 78-93-3 U 50.0 25.0 2-Deutanone 78-93-3 U 50.0 25.0 2-Chlorotoluene 95-49-8 U 10.0 1.25 2-Hexanone 591-78-6 U 50.0 25.0 2-Chlorotoluene 106-43-4 U 10.0 2.50 2-Hexanone 17-43-2 U 10.0 2.50 2-Benzene <t< td=""><td>1,2,3-Trichloropropane</td><td>96-18-4</td><td></td><td>U</td><td>10.0</td><td>5.00</td></t<>	1,2,3-Trichloropropane	96-18-4		U	10.0	5.00
10.0 10.0	1,2,4-Trichlorobenzene	120-82-1		U	10.0	2.00
1,2-Dibromoethane 106-93-4 U 10.0 2.50 1,2-Dichlorobenzene 95-50-1 U 10.0 1.25 1,2-Dichloroptenane 107-06-2 U 10.0 2.50 1,2-Dichloroptropane 78-87-5 U 10.0 2.50 1,3-Trimethylbenzene 108-67-8 U 10.0 2.50 1,3-Dichlorobenzene 541-73-1 U 10.0 2.50 1,4-Dichlorobenzene 106-46-7 U 10.0 1.25 2-Butanone 78-93-3 U 50.0 25.0 2-Chlorotoluene 95-49-8 U 10.0 1.25 2-Hexanone 591-78-6 U 50.0 25.0 2-Chlorotoluene 106-43-4 U 10.0 2.50 3-Methyl-2-pentanone 108-10-1 U 50.0 25.0 3-Methyl-2-pentanone 67-64-1 1160 50.0 25.0 3-Romobenzene 108-86-1 U 10.0 1.25 3-Romobenzene 108-86-1 U 10.0 1.25 3-Romodichloromethane	1,2,4-Trimethylbenzene	95-63-6		U	10.0	2.50
1.2-Dichlorobenzene 95-50-1 U 10.0 1.25 1.2-Dichloroethane 107-06-2 U 10.0 2.50 1.2-Dichloropropane 78-87-5 U 10.0 2.50 1.3-Dichloropropane 108-67-8 U 10.0 2.50 1.3-Dichlorobenzene 108-67-8 U 10.0 2.50 1.3-Dichlorobenzene 106-46-7 U 10.0 2.50 1.4-Dichlorobenzene 106-46-7 U 10.0 1.25 2-Butanone 78-93-3 U 50.0 25.0 2-Chlorotoluene 95-49-8 U 10.0 1.25 2-Hexanone 591-78-6 U 50.0 25.0 3-Chlorotoluene 106-43-4 U 10.0 2.50 3-Chlorotoluene 108-10-1 U 50.0 25.0 3-Chlorotoluene 67-64-1 1160 50.0 25.0 3-Chlorotoluene 71-43-2 U 10.0 1.25 3-Chloromethane 75-27-4 U 10.0 1.25 3-Chloromethane 75-27-4 U 10.0 5.00 3-Chloromethane 74-83-9 U 10.0 5.00 3-Chlorotoluene 75-15-0 U 10.0 5.00 3-Chlorotoluene 108-90-7 U 10.0 1.25 3-Chlorodichloromethane 108-90-7 U 10.0 2.50 3-Chlorodichloromethane 124-48-1 U 10.0 2.50 3-Chlorobenzene 108-90-7 U 10.0 2.50 3-Chlorodichloromethane 124-48-1 U 10.0 2.50 3-Chlorobenzene 108-90-7 U 10.0 1.25 3-Chlorodichloromethane 124-48-1 U 10.0 2.50 3-Chlorodichloromethane 124-48-1 U 10.0 2.50 3-Chlorobenzene 108-90-7 U 10.0 2.50 3-Chlorobe	1,2-Dibromo-3-chloropropane	96-12-8		U	20.0	10.0
L2-Dichloroethane 107-06-2 U 10.0 2.50 L2-Dichloropropane 78-87-5 U 10.0 2.00 L3.5-Trimethylbenzene 108-67-8 U 10.0 2.50 L3.5-Trimethylbenzene 108-67-8 U 10.0 2.50 L3.5-Dichlorobenzene 541-73-1 U 10.0 2.50 L4.4-Dichlorobenzene 106-46-7 U 10.0 1.25 L4.4-Dichlorobenzene 78-93-3 U 50.0 25.0 25.0 L4.4-Dichlorobenzene 95-49-8 U 10.0 1.25 L4.4-Exanone 591-78-6 U 50.0 25.0 L4.4-Exanone 106-43-4 U 10.0 2.50 L4.4-Exanone 108-10-1 U 50.0 25.0 L4.4-Exanone 108-8-1 U 10.0 1.25 L4.4-Exanone 108-8-1 U 10.0 1.25 L4.4-Exanone 108-8-1 U 10.0 5.00 L4.4-Exanone 108-	1,2-Dibromoethane	106-93-4		U	10.0	2.50
1.2-Dichloropropane 78-87-5 U 10.0 2.00 1.3,5-Trimethylbenzene 108-67-8 U 10.0 2.50 1.3-Dichlorobenzene 541-73-1 U 10.0 2.50 1.4-Dichlorobenzene 106-46-7 U 10.0 1.25 2-Butanone 78-93-3 U 50.0 25.0 2-Chlorotoluene 95-49-8 U 10.0 1.25 2-Hexanone 591-78-6 U 50.0 25.0 4-Chlorotoluene 106-43-4 U 10.0 2.50 4-Methyl-2-pentanone 108-10-1 U 50.0 25.0 4-Cetone 67-64-1 1160 50.0 25.0 3-Benzene 71-43-2 U 10.0 1.25 3-gromodichloromethane 75-27-4 U 10.0 2.50 3-gromoform 75-25-2 U 10.0 5.00 2-gromodichloromethane 74-83-9 U 10.0 5.00 2-gromodichloromethane 75-15-0 U 10.0 5.00 2-gromodichloromethane	1,2-Dichlorobenzene	95-50-1		U	10.0	1.25
1.3,5-Trimethylbenzene 108-67-8 U 10.0 2.50 1.3-Dichlorobenzene 541-73-1 U 10.0 2.50 1.4-Dichlorobenzene 106-46-7 U 10.0 1.25 1.4-Dichlorobenzene 106-46-7 U 10.0 1.25 1.25 1.3-Dichlorobenzene 106-46-7 U 10.0 1.25 1.25 1.3-Dichlorobenzene 106-43-3 U 50.0 25.0 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	1,2-Dichloroethane	107-06-2		U	10.0	2.50
1.3-Dichlorobenzene 541-73-1 U 10.0 2.50 1.4-Dichlorobenzene 106-46-7 U 10.0 1.25 2-Butanone 78-93-3 U 50.0 25.0 2-Chlorotoluene 95-49-8 U 10.0 1.25 2-Hexanone 591-78-6 U 50.0 25.0 4-Chlorotoluene 106-43-4 U 10.0 2.50 4-Methyl-2-pentanone 108-10-1 U 50.0 25.0 4-cetone 67-64-1 1160 50.0 25.0 3-cerone 71-43-2 U 10.0 1.25 3-cromodichloromethane 75-27-4 U 10.0 1.25 3-cromodichloromethane 75-27-4 U 10.0 5.00 3-cromodichloride 75-15-0 U 10.0 5.00 3-carbon disulfide 75-15-0 U 10.0 5.00 3-carbon tetrachloride 56-23-5 U 10.0 1.25 3-chlorodibromomethane 124-48-1 U 10.0 2.50	1,2-Dichloropropane	78-87-5		U	10.0	2.00
106-46-7 U 10.0 1.25 P-Butanone 78-93-3 U 50.0 25.0 P-Chlorotoluene 95-49-8 U 10.0 1.25 P-Hexanone 591-78-6 U 50.0 25.0 P-Chlorotoluene 106-43-4 U 10.0 2.50 P-Chlorotoluene 108-10-1 U 50.0 25.0 P-Chlorotoluene 108-10-1 U 10.0 1.25 P-Chlorotoluene 108-86-1 U 10.0 1.25 P-Chlorotoluene 108-86-1 U 10.0 1.25 P-Chlorotoluene 108-86-1 U 10.0 5.00 P-Chlorotoluene 108-86-1 U 10.0 5.00 P-Chlorotoluene 108-86-1 U 10.0 5.00 P-Chlorotoluene 108-80-7 U 10.0 5.00 P-Chlorotoluene 108-90-7 U 10.0 1.25 P-Chlorotoluene 108-90-7 U 10.0 1.25 P-Chlorodibromomethane 124-48-1 U 10.0 2.50	1,3,5-Trimethylbenzene	108-67-8		U	10.0	2.50
Particular	1,3-Dichlorobenzene	541-73-1		U	10.0	2.50
2-Chlorotoluene 95-49-8 U 10.0 1.25 2-Hexanone 591-78-6 U 50.0 25.0 3-Chlorotoluene 106-43-4 U 10.0 2.50 3-Chlorotoluene 108-10-1 U 50.0 25.0 3-Cetone 67-64-1 1160 50.0 25.0 3-Cetone 71-43-2 U 10.0 1.25 3-Comodenzene 108-86-1 U 10.0 1.25 3-Comodichloromethane 75-27-4 U 10.0 2.50 3-Comomethane 75-25-2 U 10.0 5.00 3-Carbon disulfide 75-15-0 U 10.0 5.00 3-Carbon tetrachloride 56-23-5 U 10.0 2.50 3-Chlorodibromomethane 108-90-7 U 10.0 2.50 3-Chlorodibromomethane 124-48-1 U 10.0 2.50	1,4-Dichlorobenzene	106-46-7		U	10.0	1.25
2-Hexanone 591-78-6 U 50.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	2-Butanone	78-93-3		U	50.0	25.0
1-Chlorotoluene 106-43-4 U 10.0 2.50 1-Methyl-2-pentanone 108-10-1 U 50.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	2-Chlorotoluene	95-49-8		U	10.0	1.25
108-10-1 U 50.0 25.0 Acetone 67-64-1 1160 50.0 25.0 Benzene 71-43-2 U 10.0 1.25 Bromobenzene 108-86-1 U 10.0 1.25 Bromodichloromethane 75-27-4 U 10.0 2.50 Bromomethane 75-25-2 U 10.0 5.00 Bromomethane 74-83-9 U 10.0 5.00 Carbon disulfide 75-15-0 U 10.0 2.50 Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 2.50 Chlorodibromomethane 124-48-1 U	2-Hexanone	591-78-6		U	50.0	25.0
Acetone 67-64-1 1160 50.0 25.0 Benzene 71-43-2 U 10.0 1.25 Bromobenzene 108-86-1 U 10.0 1.25 Bromodichloromethane 75-27-4 U 10.0 2.50 Bromoform 75-25-2 U 10.0 5.00 Bromomethane 74-83-9 U 10.0 5.00 Carbon disulfide 75-15-0 U 10.0 5.00 Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50 Chlorodibromomethane	4-Chlorotoluene	106-43-4		U	10.0	2.50
Benzene 71-43-2 U 10.0 1.25 Bromobenzene 108-86-1 U 10.0 1.25 Bromodichloromethane 75-27-4 U 10.0 2.50 Bromoform 75-25-2 U 10.0 5.00 Bromomethane 74-83-9 U 10.0 5.00 Carbon disulfide 75-15-0 U 10.0 5.00 Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50	4-Methyl-2-pentanone	108-10-1		U	50.0	25.0
Bromobenzene 108-86-1 U 10.0 1.25 Bromodichloromethane 75-27-4 U 10.0 2.50 Bromoform 75-25-2 U 10.0 5.00 Bromomethane 74-83-9 U 10.0 5.00 Carbon disulfide 75-15-0 U 10.0 5.00 Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50	Acetone	67-64-1	1160		50.0	25.0
Bromodichloromethane 75-27-4 U 10.0 2.50 Bromoform 75-25-2 U 10.0 5.00 Bromomethane 74-83-9 U 10.0 5.00 Carbon disulfide 75-15-0 U 10.0 5.00 Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50	Benzene	71-43-2		U	10.0	1.25
Bromoform 75-25-2 U 10.0 5.00 Bromomethane 74-83-9 U 10.0 5.00 Carbon disulfide 75-15-0 U 10.0 5.00 Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50	Bromobenzene	108-86-1		U	10.0	1.25
Bromomethane 74-83-9 U 10.0 5.00 Carbon disulfide 75-15-0 U 10.0 5.00 Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50	Bromodichloromethane	75-27-4		U	10.0	2.50
Carbon disulfide 75-15-0 U 10.0 5.00 Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50	Bromoform	75-25-2		U	10.0	5.00
Carbon tetrachloride 56-23-5 U 10.0 2.50 Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50	Bromomethane	74-83-9		U	10.0	5.00
Chlorobenzene 108-90-7 U 10.0 1.25 Chlorodibromomethane 124-48-1 U 10.0 2.50	Carbon disulfide	75-15-0		U	10.0	5.00
Chlorodibromomethane 124-48-1 U 10.0 2.50	Carbon tetrachloride	56-23-5		U	10.0	2.50
	Chlorobenzene	108-90-7		U	10.0	1.25
Chloroethane 75-00-3 II 10.0 5.00	Chlorodibromomethane	124-48-1		U	10.0	2.50
70 00 0	Chloroethane	75-00-3		U	10.0	5.00
Chloroform 67-66-3 U 10.0 1.25	Chloroform	67-66-3		U	10.0	1.25

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 Lab Report #:
 L12020592

 Lab Project #:
 3005.011

 Project Name:
 White Sands MR

Lab Contact: Stephanie Mossburg

Certificate of Analysis

Analyte	CAS#	Result	Qual	LOQ	LOD
Chloromethane	74-87-3		U	10.0	5.00
cis-1,2-Dichloroethene	156-59-2		U	10.0	2.50
cis-1,3-Dichloropropene	10061-01-5		U	10.0	2.50
Dichlorodifluoromethane	75-71-8		U	10.0	2.50
Ethylbenzene	100-41-4		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	10.0	2.50
Isopropylbenzene	98-82-8		U	10.0	2.50
Methyl t-butyl ether (MTBE)	1634-04-4		U	10.0	5.00
Methylene chloride	75-09-2	2.64	J	10.0	2.50
n-Butylbenzene	104-51-8		U	10.0	2.50
n-Propylbenzene	103-65-1		U	10.0	1.25
Naphthalene	91-20-3		U	10.0	2.00
sec-Butylbenzene	135-98-8		U	10.0	2.50
Styrene	100-42-5		U	10.0	1.25
tert-Butylbenzene	98-06-6		U	10.0	2.50
Tetrachloroethene	127-18-4		U	10.0	2.50
Toluene	108-88-3		U	10.0	2.50
trans-1,2-Dichloroethene	156-60-5		U	10.0	2.50
trans-1,3-Dichloropropene	10061-02-6		U	10.0	5.00
Trichloroethene	79-01-6		U	10.0	2.50
Trichlorofluoromethane	75-69-4		U	10.0	2.50
Vinyl acetate	108-05-4		U	50.0	25.0
Vinyl chloride	75-01-4		U	10.0	2.50
Xylenes	1330-20-7		U	10.0	5.00

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	97.6	70	120	
4-Bromofluorobenzene	102	75	120	
Dibromofluoromethane	97.6	85	115	
Toluene-d8	98.5	85	120	

J	Estimated value ; the analyte concentration was less than the LOQ.	
U	Analyte was not detected. The concentration is below the reported LOD.	

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L12020592 / Revision: / 31 total pages Generated: 03/05/2012 15:55



Certificate of Analysis

Sample #: L12020592-01 PrePrep Method: N/A Instrument: HPMS5

Client ID: STP-WC-0212 Prep Method: 3510C Prep Date: 02/24/2012 08:30 **Analytical Method: 8270C** Cal Date: 02/03/2012 12:30 Matrix: Water Workgroup #: WG390662 Analyst: CAA Run Date: 02/27/2012 10:03

Collect Date: 02/17/2012 12:40 Dilution: 1 File ID: 5M66014

1,2-Dichlorobenzene 95-50-1 U 10.8 2.69 1,3-Dichlorobenzene 541-73-1 U 10.8 2.69 1,4-Dichlorobenzene 106-46-7 U 10.8 2.69 1,4-Dichlorobenzene 106-46-7 U 10.8 2.69 2,45-Trichlorophenol 95-95-4 U 10.8 2.69 2,4,5-Trichlorophenol 88-06-2 U 10.8 2.69 2,4-Dichlorophenol 120-83-2 U 10.8 2.69 2,4-Dichlorophenol 105-67-9 U 10.8 2.69 2,4-Dichlorophenol 105-67-9 U 10.8 2.69 2,4-Dinitrophenol 105-67-8 U 10.8 2.69 2,5-Dinitrophenol 105-67-5 U 10.8 2.69 3,3-Dichlorobenzidine 105-45-5 U 10.8 2.69 3,3-Dichlorobenzidine 105-45-5 U 10.8 2.69 3,3-Dichlorobenzidine 105-45-5 U 10.8 2.69 3,4-Methylphenol 106-45-5 U 10.8 2.69 3,4-Methylphenol 106-45-5 U 10.8 2.69 4,4-Dinitro-2-methylphenol 105-67-2 U 10.8 2.69 4,4-Dinitro-2-methylphenol 105-67-2 U 10.8 2.69 4,4-Dinitro-2-methylphenol 105-67-2 U 10.8 2.69 4,4-Dinitro-2-methylphenol 106-47-8 U 106-47	Sample Tag: 01	Units: ug/L				
1.2-Dichlorobenzene 95-50-1 U 10.8 2-69 1.3-Dichlorobenzene 541-73-1 U 10.8 2-69 1.4-Dichlorobenzene 541-73-1 U 10.8 2-69 1.4-Dichlorobenzene 106-46-7 U 10.8 2-69 2.4,5-Trichlorophenol 95-95-4 U 10.8 2-69 2.4,5-Trichlorophenol 95-95-4 U 10.8 2-69 2.4,5-Trichlorophenol 120-83-2 U 10.8 2-69 2.4-Dichlorophenol 120-83-2 U 10.8 2-69 2.4-Dimethylphenol 105-67-9 U 10.8 2-69 2.4-Dimethylphenol 105-67-9 U 10.8 2-69 2.4-Dimitrophenol 121-14-2 U 10.8 2-69 2.4-Dimitrophenol 191-58-7 U 10.8 2-69 2.4-Dimitrophenol 191-58-8 U 10.8 2-69 3.3-Dichlorobenzidine 191-91 U 10.8 2-69 3.3-Dichlorobenzidine 191-	Analyte	CAS#	Result	Qual	LOQ	LOD
1,3-Dichlorobenzene 541-73-1 U 10.8 2.69 1,4-Dichlorobenzene 106-46-7 U 10.8 2.69 1,4-Dichlorobenzene 106-46-7 U 10.8 2.69 2,4,5-Trichlorophenol 95-95-4 U 10.8 2.69 2,4-Dirichlorophenol 120-83-2 U 10.8 2.69 2,4-Dirichlorophenol 120-83-2 U 10.8 2.69 2,4-Dirichlorophenol 105-67-9 U 10.8 2.69 2,4-Dirichlorophenol 152-85-5 U 43.0 13.4 2,4-Dirichlorophenol 121-14-2 U 10.8 2.69 2,4-Dirichlorophenol 191-58-7 U 1	1,2,4-Trichlorobenzene	120-82-1		U	10.8	2.69
1.4-Dichlorobenzene 106-46-7 U 10.8 2.69 2.4,5-Trichlorophenol 95-95-4 U 10.8 2.69 2.4,5-Trichlorophenol 88-06-2 U 10.8 2.69 2,4-Dichlorophenol 120-83-2 U 10.8 2.69 2,4-Dinitrophenol 105-67-9 U 10.8 2.69 2,4-Dinitrophenol 51-28-5 U 43.0 13.4 2,4-Dinitrotoluene 121-14-2 U 10.8 2.69 2,6-Dinitrotoluene 666-20-2 U 10.8 2.69 2-Chloronaphthalene 91-58-7 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Mettrylaphthalene 91-57-6 U 10.8 2.69 2-Mettrylaphthalene 91-57-6 U 10.8 2.69 2-Mettrylaphthalene 91-57-6 U 10.8 2.69 2-Mettrylaphenol 95-48-7 U 10.8 2.69 2-Mettrylaphenol 88-75-5 U 10.8 2.69 3-Nitroaniline	1,2-Dichlorobenzene	95-50-1		U	10.8	2.69
2,4,5-Trichlorophenol 95-95-4 U 10.8 2.69 2,4,6-Trichlorophenol 88-06-2 U 10.8 2.69 2,4-Dichlorophenol 120-83-2 U 10.8 2.69 2,4-Dinitrophenol 105-67-9 U 10.8 2.69 2,4-Dinitrophenol 51-28-5 U 43.0 13.4 2,4-Dinitrotoluene 121-14-2 U 10.8 2.69 2,6-Dinitrotoluene 606-20-2 U 10.8 2.69 2,6-Dinitrotoluene 91-58-7 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Methylaphthalene 91-57-6 U 10.8 2.69 2-Methylaphthalene 95-48-7 U 10.8 2.69 2-Methylaphthalene 95-48-7 U 10.8 2.69 2-Nitroaniline 88-75-5 U 10.8 2.69 3-Nitroaniline 91-94-1 U 10.8 2.69 3-Nitroaniline <t< td=""><td>1,3-Dichlorobenzene</td><td>541-73-1</td><td></td><td>U</td><td>10.8</td><td>2.69</td></t<>	1,3-Dichlorobenzene	541-73-1		U	10.8	2.69
2,4,6-Trichlorophenol 88-06-2 U 10.8 2.69 2,4-Dichlorophenol 120-83-2 U 10.8 2.69 2,4-Dinthrylphenol 105-67-9 U 10.8 2.69 2,4-Dinitrophenol 51-28-5 U 43.0 13.4 2,4-Dinitrotoluene 121-14-2 U 10.8 2.69 2,6-Dinitrotoluene 606-20-2 U 10.8 2.69 2-Chlorophenol 91-58-7 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Methylphaphthalene 91-57-6 U 10.8 2.69 2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitropaniline 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3-3-Dichlorobenzidine 91-94-1 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-Chloro-arenthylphenol 534-52-1 U 43.0 13.4 4-Chloro-a-methylphenol <td>1,4-Dichlorobenzene</td> <td>106-46-7</td> <td></td> <td>U</td> <td>10.8</td> <td>2.69</td>	1,4-Dichlorobenzene	106-46-7		U	10.8	2.69
2,4-Dichlorophenol 120-83-2 U 10.8 2.69 2,4-Dimethylphenol 105-67-9 U 10.8 2.69 2,4-Dimitrophenol 51-28-5 U 43.0 13.4 2,4-Dimitrophenol 121-14-2 U 10.8 2.69 2,6-Dinitrotoluene 606-20-2 U 10.8 2.69 2-Chlorophenol 91-58-7 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Methylnaphthalene 91-57-6 U 10.8 2.69 2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitroaniline 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3-4-Methylphenol 106-44-5 U 10.8 2.69 3-4-Methylphenol 106-44-5 U 43.0 13.4 4-Colintro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol<	2,4,5-Trichlorophenol	95-95-4		U	10.8	2.69
2,4-Dinethylphenol 105-67-9 U 10.8 2.69 2,4-Dinitrophenol 51-28-5 U 43.0 13.4 2,4-Dinitrotoluene 121-14-2 U 10.8 2.69 2,6-Dinitrotoluene 606-20-2 U 10.8 2.69 2-Chloronaphthalene 91-58-7 U 10.8 2.69 2-Methylaphthalene 91-57-6 U 10.8 2.69 2-Methylaphthalene 95-48-7 U 10.8 2.69 2-Nitroaniline 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3-A-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol	2,4,6-Trichlorophenol	88-06-2		U	10.8	2.69
2,4-Dinitrophenol 51-28-5 U 43.0 13.4 2,4-Dinitrotoluene 121-14-2 U 10.8 2.69 2,6-Dinitrotoluene 606-20-2 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Methylnaphthalene 91-57-6 U 10.8 2.69 2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitrophenol 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3,3-Dichlorobenzidine 91-94-1 U 10.8 2.69 3,4-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4,6-Dinitro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloro-3-	2,4-Dichlorophenol	120-83-2		U	10.8	2.69
2,4-Dinitrotoluene 121-14-2 U 10.8 2.69 2,6-Dinitrotoluene 606-20-2 U 10.8 2.69 2-Chloronaphthalene 91-58-7 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Methylphaphthalene 91-57-6 U 10.8 2.69 2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitrophenol 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3,4-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-Chiritro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chlorophenyl-phenylether 106-47-8 U 10.8 2.69 4-C	2,4-Dimethylphenol	105-67-9		U	10.8	2.69
2.6-Dinitrotoluene 606-20-2 U 10.8 2.69 2-Chloronaphthalene 91-58-7 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Methylnaphthalene 91-57-6 U 10.8 2.69 2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitroaniline 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3,3'-Dichlorobenzidine 91-94-1 U 10.8 2.69 3,4-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-Bornophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloro-phenyl-phenylether 106-47-8 U 10.8 2.69 4-Nitroaniline 100-01-6 U 10.8 2.69 4-Nitrophenol 100-02-7 U 43.0 13.4 4-Nitrophenol	2,4-Dinitrophenol	51-28-5		U	43.0	13.4
2-Chloronaphthalene 91-58-7 U 10.8 2.69 2-Chlorophenol 95-57-8 U 10.8 2.69 2-Methylnaphthalene 91-57-6 U 10.8 2.69 2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitroaniline 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3,3'-Dichlorobenzidine 91-94-1 U 10.8 2.69 3-A-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloro-A-methylphenol 59-50-7 U 10.8 2.69 4-Chloro-Jamiline 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophe	2,4-Dinitrotoluene	121-14-2		U	10.8	2.69
2-Chlorophenol 95-57-8 U 10.8 2.69 2-Methylnaphthalene 91-57-6 U 10.8 2.69 2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitroaniline 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3,3'-Dichlorobenzidine 91-94-1 U 10.8 2.69 3-A-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chlorophenyl-phenyl ether 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene </td <td>2,6-Dinitrotoluene</td> <td>606-20-2</td> <td></td> <td>U</td> <td>10.8</td> <td>2.69</td>	2,6-Dinitrotoluene	606-20-2		U	10.8	2.69
2-Methylphaphthalene 91-57-6 U 10.8 2.69 2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitroaniline 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3,3'-Dichlorobenzidine 91-94-1 U 10.8 2.69 3-A-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-Bromophenyl-phenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chlorophenyl-phenyl ether 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenapht	2-Chloronaphthalene	91-58-7		U	10.8	2.69
2-Methylphenol 95-48-7 U 10.8 2.69 2-Nitroaniline 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3,3'-Dichlorobenzidine 91-94-1 U 10.8 2.69 3-A-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-G-Dinitro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chlorophenyl-phenyl ether 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitrophenol 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69	2-Chlorophenol	95-57-8		U	10.8	2.69
2-Nitrophenol 88-74-4 U 43.0 13.4 2-Nitrophenol 88-75-5 U 10.8 2.69 3,3'-Dichlorobenzidine 91-94-1 U 10.8 2.69 3-4-Methylphenol 106-44-5 U 10.8 2.69 3-4-Methylphenol 106-44-5 U 43.0 13.4 4.6-Dinitro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chlorophenyl-phenylether 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenylether 7005-72-3 U 10.8 2.69 4-Nitrophenol 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 10.8 2.69 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	2-Methylnaphthalene	91-57-6		U	10.8	2.69
2-Nitrophenol 88-75-5 U 10.8 2.69 3,3'-Dichlorobenzidine 91-94-1 U 10.8 2.69 3-,4-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4-6-Dinitro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chlorophenyl-phenyl ether 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitrophenol 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthylene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 B	2-Methylphenol	95-48-7		U	10.8	2.69
3,3'-Dichlorobenzidine 91-94-1 U 10.8 2.69 3-,4-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4,6-Dinitro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloroaniline 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitrophenol 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene <td>2-Nitroaniline</td> <td>88-74-4</td> <td></td> <td>U</td> <td>43.0</td> <td>13.4</td>	2-Nitroaniline	88-74-4		U	43.0	13.4
3-,4-Methylphenol 106-44-5 U 10.8 2.69 3-Nitroaniline 99-09-2 U 43.0 13.4 4,6-Dinitro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloroaniline 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	2-Nitrophenol	88-75-5		U	10.8	2.69
3-Nitroaniline 99-09-2 U 43.0 13.4 4,6-Dinitro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloroaniline 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	3,3'-Dichlorobenzidine	91-94-1		U	10.8	2.69
4,6-Dinitro-2-methylphenol 534-52-1 U 43.0 13.4 4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloroaniline 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	3-,4-Methylphenol	106-44-5		U	10.8	2.69
4-Bromophenyl-phenylether 101-55-3 U 10.8 2.69 4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloroaniline 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	3-Nitroaniline	99-09-2		U	43.0	13.4
4-Chloro-3-methylphenol 59-50-7 U 10.8 2.69 4-Chloroaniline 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	4,6-Dinitro-2-methylphenol	534-52-1		U	43.0	13.4
4-Chloroaniline 106-47-8 U 10.8 2.69 4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	4-Bromophenyl-phenylether	101-55-3		U	10.8	2.69
4-Chlorophenyl-phenyl ether 7005-72-3 U 10.8 2.69 4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	4-Chloro-3-methylphenol	59-50-7		U	10.8	2.69
4-Nitroaniline 100-01-6 U 43.0 13.4 4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	4-Chloroaniline	106-47-8		U	10.8	2.69
4-Nitrophenol 100-02-7 U 43.0 13.4 Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	4-Chlorophenyl-phenyl ether	7005-72-3		U	10.8	2.69
Acenaphthene 83-32-9 U 10.8 2.69 Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	4-Nitroaniline	100-01-6		U	43.0	13.4
Acenaphthylene 208-96-8 U 10.8 2.69 Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	4-Nitrophenol	100-02-7		U	43.0	13.4
Anthracene 120-12-7 U 10.8 2.69 Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	Acenaphthene	83-32-9		U	10.8	2.69
Benzo(a)anthracene 56-55-3 U 10.8 2.69 Benzo(a)pyrene 50-32-8 U 10.8 2.69	Acenaphthylene	208-96-8		U	10.8	2.69
Benzo(a)pyrene 50-32-8 U 10.8 2.69	Anthracene	120-12-7		U	10.8	2.69
	Benzo(a)anthracene	56-55-3		U	10.8	2.69
Benzo(b)fluoranthene 205-99-2 U 10.8 2.69	Benzo(a)pyrene	50-32-8		U	10.8	2.69
	Benzo(b)fluoranthene	205-99-2		U	10.8	2.69

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Certificate of Analysis

Analyte	CAS#	Result	Qual	LOQ	LOD
Benzo(g,h,i)Perylene	191-24-2		U	10.8	2.69
Benzo(k)fluoranthene	207-08-9		U	10.8	2.69
Benzoic acid	65-85-0		U	43.0	13.4
Benzyl alcohol	100-51-6		U	10.8	2.69
Bis(2-Chloroethoxy)Methane	111-91-1		U	10.8	2.69
Bis(2-Chloroethyl)ether	111-44-4		U	10.8	2.69
bis(2-Chloroisopropyl)ether	108-60-1		U	10.8	2.69
bis(2-Ethylhexyl)phthalate	117-81-7		U	10.8	3.23
Butylbenzylphthalate	85-68-7		U	10.8	2.69
Chrysene	218-01-9		U	10.8	2.69
Di-N-Butylphthalate	84-74-2		U	10.8	2.69
Di-n-octylphthalate	117-84-0		U	10.8	2.69
Dibenzo(a,h)Anthracene	53-70-3		U	10.8	2.69
Dibenzofuran	132-64-9		U	10.8	2.69
Diethylphthalate	84-66-2		U	10.8	2.69
Dimethylphthalate	131-11-3		U	10.8	2.69
Fluoranthene	206-44-0		U	10.8	2.69
Fluorene	86-73-7		U	10.8	2.69
Hexachlorobenzene	118-74-1		U	10.8	2.69
Hexachlorobutadiene	87-68-3		U	10.8	2.69
Hexachlorocyclopentadiene	77-47-4		U	10.8	2.69
Hexachloroethane	67-72-1		U	10.8	2.69
Indeno(1,2,3-cd)pyrene	193-39-5		U	10.8	2.69
Isophorone	78-59-1		U	10.8	2.69
N-Nitroso-di-n-propylamine	621-64-7		U	10.8	2.69
N-Nitrosodiphenylamine	86-30-6		U	10.8	2.69
Naphthalene	91-20-3		U	10.8	2.69
Nitrobenzene	98-95-3		U	10.8	2.69
Pentachlorophenol	87-86-5		U	43.0	13.4
Phenanthrene	85-01-8		U	10.8	2.69
Phenol	108-95-2		U	10.8	2.69
Pyrene	129-00-0		U	10.8	2.69

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2,4,6-Tribromophenol	86.2	40	125	
2-Fluorobiphenyl	57.9	50	110	
2-Fluorophenol	36.0	20	110	
Nitrobenzene-d5	57.2	40	110	
p-Terphenyl-d14	81.0	50	135	
Phenol-d5	23.4	10	115	

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Lead, Total

Silver, Total

U

Lab Report #: L12020592 Lab Project #: 3005.011 Project Name: White Sands MR Lab Contact: Stephanie Mossburg

Instrument: ICP-THERMO2

0.00500

0.0100

0.00250

0.00500

U

U

Certificate of Analysis

U Analyte was not detected. The concentration is below the reported LOD.

Analyte was not detected. The concentration is below the reported LOD.

Sample #: L12020592-01 PrePrep Method: N/A Client ID: STP-WC-0212 Prep Method: 3005A Prep Date: 02/21/2012 07:45 Matrix: Water Analytical Method: 6010B Cal Date: 02/27/2012 08:50 Workgroup #: WG390680 Analyst: KHR Run Date: 02/27/2012 11:04 Collect Date: 02/17/2012 12:40 Dilution: 1 File ID: T2.022712.110449 Sample Tag: 01 Units: mg/L LOD Analyte CAS# Result Qual LOQ 7440-38-2 U 0.0100 0.00500 Arsenic, Total 7440-39-3 0.0219 0.0100 0.00500 Barium, Total Cadmium, Total 7440-43-9 0.0100 0.00500 U Chromium, Total 7440-47-3 U 0.0200 0.0100

7439-92-1

7440-22-4

Sample #: L12020592-01 Instrument: ELAN-ICP PrePrep Method: N/A Client ID: STP-WC-0212 Prep Method: 3015 Prep Date: 02/21/2012 07:55 Matrix: Water Analytical Method: 6020 Cal Date: 02/21/2012 10:39 Workgroup #: WG390226 Analyst: EDL Run Date: 02/21/2012 23:40 Collect Date: 02/17/2012 12:40 Dilution: 1 File ID: EL.022112.234015 Sample Tag: 01 Units: mg/L CAS# Result Qual LOQ LOD Analyte Selenium, Total 7782-49-2 0.00564 0.00100 0.000500

Sample #: L12020592-01 PrePrep Method: N/A Instrument: HYDRA Client ID: STP-WC-0212 Prep Method: 7470A Prep Date: 02/21/2012 09:35 Cal Date: 02/22/2012 13:07 Matrix: Water Analytical Method: 7470A Workgroup #: WG390302 Analyst: PDM Run Date: 02/22/2012 14:49 Collect Date: 02/17/2012 12:40 Dilution: 1 File ID: HY.022212.144950 Sample Tag: 01 Units: mg/L Analyte CAS# Result Qual LOQ LOD 7439-97-6 0.000100 Mercury U 0.000200 U Analyte was not detected. The concentration is below the reported LOD.

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Certificate of Analysis

Sample #: L12020592-01 PrePrep Method: N/A Instrument: ORION-4STAR

Client ID: STP-WC-0212 Prep Method: 9040C Prep Date: N/A

Matrix: Water Analytical Method: 9040C Cal Date:

 Workgroup #:
 WG390171
 Analyst:
 DLP
 Run Date:
 02/20/2012 16:50

Sample Tag: Units: UNITS

 Analyte
 CAS #
 Result
 Qual
 LOQ
 LOD

 Corrosivity pH
 10-29-7
 7.98
 0.000
 0.000

 Sample #:
 L12020592-02
 PrePrep Method:
 N/A
 Instrument:
 HPMS6

 Client ID:
 HTA-WC-0212
 Prep Method:
 5030B/5030C/5035A
 Prep Date:
 N/A

 Matrix:
 Water
 Analytical Method:
 8260B
 Cal Date:
 02/13/2012 18:44

 Workgroup #:
 WG390592
 Analyst:
 ADC
 Run Date:
 02/24/2012 17:13

Sample Tag: 01 Units: ug/L

Sample ray: 01	Offics: ug/L				
Analyte	CAS#	Result	Qual	LOQ	LOD
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	2.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2-Butanone	78-93-3	3.03	J	5.00	2.50
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	5.00	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1	28.4		5.00	2.50
Benzene	71-43-2		U	1.00	0.125

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Certificate of Analysis

Analyte	CAS#	Result	Qual	LOQ	LOD
Bromobenzene	108-86-1		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
sopropylbenzene	98-82-8		U	1.00	0.250
Methyl t-butyl ether (MTBE)	1634-04-4		U	1.00	0.500
Methylene chloride	75-09-2		U	1.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
rans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl acetate	108-05-4		U	5.00	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	90.5	70	120	
4-Bromofluorobenzene	98.6	75	120	
Dibromofluoromethane	89.9	85	115	
Toluene-d8	97.0	85	120	

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Certificate of Analysis

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

Sample #: L12020592-02 PrePrep Method: N/A Instrument: HPMS5

Client ID: HTA-WC-0212 Prep Method: 3510C Prep Date: 02/24/2012 08:30 Matrix: Water Analytical Method: 8270C Cal Date: 02/03/2012 12:30 Workgroup #: WG390662 Analyst: CAA Run Date: 02/27/2012 10:37

Collect Date: 02/17/2012 12:45 Dilution: 1 File ID: 5M66015

Sample Tag: 01	Units: ug/L				
Analyte	CAS#	Result	Qual	LOQ	LOD
1,2,4-Trichlorobenzene	120-82-1		U	11.2	2.81
1,2-Dichlorobenzene	95-50-1		U	11.2	2.81
1,3-Dichlorobenzene	541-73-1		U	11.2	2.81
1,4-Dichlorobenzene	106-46-7		U	11.2	2.81
2,4,5-Trichlorophenol	95-95-4		U	11.2	2.81
2,4,6-Trichlorophenol	88-06-2		U	11.2	2.81
2,4-Dichlorophenol	120-83-2		U	11.2	2.81
2,4-Dimethylphenol	105-67-9		U	11.2	2.81
2,4-Dinitrophenol	51-28-5		U	44.9	14.0
2,4-Dinitrotoluene	121-14-2		U	11.2	2.81
2,6-Dinitrotoluene	606-20-2		U	11.2	2.81
2-Chloronaphthalene	91-58-7		U	11.2	2.81
2-Chlorophenol	95-57-8		U	11.2	2.81
2-Methylnaphthalene	91-57-6		U	11.2	2.81
2-Methylphenol	95-48-7		U	11.2	2.81
2-Nitroaniline	88-74-4		U	44.9	14.0
2-Nitrophenol	88-75-5		U	11.2	2.81
3,3'-Dichlorobenzidine	91-94-1		U	11.2	2.81
3-,4-Methylphenol	106-44-5		U	11.2	2.81
3-Nitroaniline	99-09-2		U	44.9	14.0
4,6-Dinitro-2-methylphenol	534-52-1		U	44.9	14.0
4-Bromophenyl-phenylether	101-55-3		U	11.2	2.81
4-Chloro-3-methylphenol	59-50-7		U	11.2	2.81
4-Chloroaniline	106-47-8		U	11.2	2.81
4-Chlorophenyl-phenyl ether	7005-72-3		U	11.2	2.81
4-Nitroaniline	100-01-6		U	44.9	14.0
4-Nitrophenol	100-02-7		U	44.9	14.0
Acenaphthene	83-32-9		U	11.2	2.81
Acenaphthylene	208-96-8		U	11.2	2.81

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Certificate of Analysis

Analyte	CAS#	Result	Qual	LOQ	LOD
Anthracene	120-12-7		U	11.2	2.81
Benzo(a)anthracene	56-55-3		U	11.2	2.81
Benzo(a)pyrene	50-32-8		U	11.2	2.81
Benzo(b)fluoranthene	205-99-2		U	11.2	2.81
Benzo(g,h,i)Perylene	191-24-2		U	11.2	2.81
Benzo(k)fluoranthene	207-08-9		U	11.2	2.81
Benzoic acid	65-85-0		U	44.9	14.0
Benzyl alcohol	100-51-6		U	11.2	2.81
Bis(2-Chloroethoxy)Methane	111-91-1		U	11.2	2.81
Bis(2-Chloroethyl)ether	111-44-4		U	11.2	2.81
bis(2-Chloroisopropyl)ether	108-60-1		U	11.2	2.81
bis(2-Ethylhexyl)phthalate	117-81-7	7.61	J	11.2	3.37
Butylbenzylphthalate	85-68-7		U	11.2	2.81
Chrysene	218-01-9		U	11.2	2.81
Di-N-Butylphthalate	84-74-2		U	11.2	2.81
Di-n-octylphthalate	117-84-0		U	11.2	2.81
Dibenzo(a,h)Anthracene	53-70-3		U	11.2	2.81
Dibenzofuran	132-64-9		U	11.2	2.81
Diethylphthalate	84-66-2		U	11.2	2.81
Dimethylphthalate	131-11-3		U	11.2	2.81
Fluoranthene	206-44-0		U	11.2	2.81
Fluorene	86-73-7		U	11.2	2.81
Hexachlorobenzene	118-74-1		U	11.2	2.81
Hexachlorobutadiene	87-68-3		U	11.2	2.81
Hexachlorocyclopentadiene	77-47-4		U	11.2	2.81
Hexachloroethane	67-72-1		U	11.2	2.81
Indeno(1,2,3-cd)pyrene	193-39-5		U	11.2	2.81
Isophorone	78-59-1		U	11.2	2.81
N-Nitroso-di-n-propylamine	621-64-7		U	11.2	2.81
N-Nitrosodiphenylamine	86-30-6		U	11.2	2.81
Naphthalene	91-20-3		U	11.2	2.81
Nitrobenzene	98-95-3		U	11.2	2.81
Pentachlorophenol	87-86-5		U	44.9	14.0
Phenanthrene	85-01-8		U	11.2	2.81
Phenol	108-95-2		U	11.2	2.81
Pyrene	129-00-0		U	11.2	2.81

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2,4,6-Tribromophenol	88.9	40	125	
2-Fluorobiphenyl	59.8	50	110	

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Certificate of Analysis

Surrogate	Recovery	Lower Limit	Upper Limit	Q
2-Fluorophenol	42.2	20	110	
Nitrobenzene-d5	53.4	40	110	
p-Terphenyl-d14	76.6	50	135	
Phenol-d5	26.0	10	115	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

 Sample #:
 L12020592-02
 PrePrep Method:
 N/A
 Instrument:
 ICP-THERMO2

 Client ID:
 HTA-WC-0212
 Prep Method:
 3005A
 Prep Date:
 02/21/2012 07:45

 Matrix:
 Water
 Analytical Method:
 6010B
 Cal Date:
 02/27/2012 08:50

 Workgroup #:
 WG390680
 Analyst:
 KHR
 Run Date:
 02/27/2012 11:08

 Collect Date:
 02/17/2012 12:45
 Dilution:
 1
 File ID:
 T2.022712.110807

Sample Tag: 01 Units: mg/L

	Analyte	CAS#	Result	Qual	LOQ	LOD
Arsenic, Total		7440-38-2		U	0.0100	0.00500
Barium, Total		7440-39-3	0.0355		0.0100	0.00500
Cadmium, Tota		7440-43-9		U	0.0100	0.00500
Chromium, Tota	al	7440-47-3		U	0.0200	0.0100
Lead, Total		7439-92-1		U	0.00500	0.00250
Silver, Total		7440-22-4		U	0.0100	0.00500
U Analyte was not detected. The concentration is below the reported LOD.						

Sample #:	L12020592-02	PrePrep Method:	N/A	Instrument	ELAN-ICP	
Client ID:	HTA-WC-0212	Prep Method:	3015	Prep Date	02/21/2012 07	7:55
Matrix:	Water	Analytical Method:	6020	Cal Date	02/21/2012 10	0:39
Workgroup #:	WG390226	Analyst:	EDL	Run Date	02/21/2012 23	3:48
Collect Date:	02/17/2012 12:45	Dilution:	1	File ID:	EL.022112.23	4802
Sample Tag:	01	Units:	mg/L			
	Analyte	CAS	# Resu	ılt Qual	LOQ	LOD
Selenium, Total		7782-49	9-2 0.004	86	0.00100	0.000500

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Certificate of Analysis

Sample #: L12020592-02 PrePrep Method: N/A Instrument: HYDRA

 Client ID:
 HTA-WC-0212
 Prep Method:
 7470A
 Prep Date:
 02/21/2012 09:35

 Matrix:
 Water
 Analytical Method:
 7470A
 Cal Date:
 02/22/2012 13:07

 Workgroup #:
 WG390302
 Analyst:
 PDM
 Run Date:
 02/22/2012 14:51

 Collect Date:
 02/17/2012 12:45
 Dilution:
 1
 File ID:
 HY.022212.145132

Sample Tag: 01 Units: mg/L

Analyte CAS # Result Qual LOQ LOD

Mercury 7439-97-6 U 0.000200 0.000100

U Analyte was not detected. The concentration is below the reported LOD.

Sample #: L12020592-02 PrePrep Method: N/A Instrument: ORION-4STAR

Client ID: HTA-WC-0212 Prep Method: 9040C Prep Date: N/A

 Matrix:
 Water
 Analytical Method:
 9040C
 Cal Date:

 Workgroup #:
 WG390171
 Analyst:
 DLP
 Run Date:
 02/20/2012 16:50

Sample Tag: Units: UNITS

 Analyte
 CAS #
 Result
 Qual
 LOQ
 LOD

 Corrosivity pH
 10-29-7
 7.44
 0.000
 0.000

Sample #: L12020592-03 PrePrep Method: N/A Instrument: HPMS11

Client ID: TRIP BLANK Prep Method: 5030B/5030C/5035A Prep Date: N/A

 Matrix:
 Water
 Analytical Method:
 8260B
 Cal Date:
 01/19/2012 19:25

 Workgroup #:
 WG390495
 Analyst:
 TMB
 Run Date:
 02/23/2012 18:47

Sample Tag: 01	Units: ug/L				
Analyte	CAS#	Result	Qual	LOQ	LOD
1,1,1-Trichloroethane	71-55-6		U	1.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	1.00	0.200
1,1,2-Trichloroethane	79-00-5		U	1.00	0.250
1,1-Dichloroethane	75-34-3		U	1.00	0.125
1,1-Dichloroethene	75-35-4		U	1.00	0.500
1,2,3-Trichloropropane	96-18-4		U	1.00	0.500
1,2,4-Trichlorobenzene	120-82-1		U	1.00	0.200
1,2,4-Trimethylbenzene	95-63-6		U	1.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	2.00	1.00
1,2-Dibromoethane	106-93-4		U	1.00	0.250
1,2-Dichlorobenzene	95-50-1		U	1.00	0.125
1,2-Dichloroethane	107-06-2		U	1.00	0.250
1,2-Dichloropropane	78-87-5		U	1.00	0.200

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Lab Report #:L12020592Lab Project #:3005.011Project Name:White Sands MR

Lab Contact: Stephanie Mossburg

Certificate of Analysis

Analyte	CAS#	Result	Qual	LOQ	LOD
1,3,5-Trimethylbenzene	108-67-8		U	1.00	0.250
1,3-Dichlorobenzene	541-73-1		U	1.00	0.250
1,4-Dichlorobenzene	106-46-7		U	1.00	0.125
2-Butanone	78-93-3		U	5.00	2.50
2-Chlorotoluene	95-49-8		U	1.00	0.125
2-Hexanone	591-78-6		U	5.00	2.50
4-Chlorotoluene	106-43-4		U	1.00	0.250
4-Methyl-2-pentanone	108-10-1		U	5.00	2.50
Acetone	67-64-1		U	5.00	2.50
Benzene	71-43-2		U	1.00	0.125
Bromobenzene	108-86-1		U	1.00	0.125
Bromodichloromethane	75-27-4		U	1.00	0.250
Bromoform	75-25-2		U	1.00	0.500
Bromomethane	74-83-9		U	1.00	0.500
Carbon disulfide	75-15-0		U	1.00	0.500
Carbon tetrachloride	56-23-5		U	1.00	0.250
Chlorobenzene	108-90-7		U	1.00	0.125
Chlorodibromomethane	124-48-1		U	1.00	0.250
Chloroethane	75-00-3		U	1.00	0.500
Chloroform	67-66-3		U	1.00	0.125
Chloromethane	74-87-3		U	1.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	1.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	1.00	0.250
Dichlorodifluoromethane	75-71-8		U	1.00	0.250
Ethylbenzene	100-41-4		U	1.00	0.250
Hexachlorobutadiene	87-68-3		U	1.00	0.250
Isopropylbenzene	98-82-8		U	1.00	0.250
Methyl t-butyl ether (MTBE)	1634-04-4		U	1.00	0.500
Methylene chloride	75-09-2		U	1.00	0.250
n-Butylbenzene	104-51-8		U	1.00	0.250
n-Propylbenzene	103-65-1		U	1.00	0.125
Naphthalene	91-20-3		U	1.00	0.200
sec-Butylbenzene	135-98-8		U	1.00	0.250
Styrene	100-42-5		U	1.00	0.125
tert-Butylbenzene	98-06-6		U	1.00	0.250
Tetrachloroethene	127-18-4		U	1.00	0.250
Toluene	108-88-3		U	1.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	1.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	1.00	0.500

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 Lab Report #:
 L12020592

 Lab Project #:
 3005.011

 Project Name:
 White Sands MR

Lab Contact: Stephanie Mossburg

Certificate of Analysis

Analyte	CAS#	Result	Qual	LOQ	LOD
Trichloroethene	79-01-6		U	1.00	0.250
Trichlorofluoromethane	75-69-4		U	1.00	0.250
Vinyl acetate	108-05-4		U	5.00	2.50
Vinyl chloride	75-01-4		U	1.00	0.250
Xylenes	1330-20-7		U	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dichloroethane-d4	102	70	120	
4-Bromofluorobenzene	99.6	75	120	
Dibromofluoromethane	99.7	85	115	
Toluene-d8	99.1	85	120	

U Analyte was not detected. The concentration is below the reported LOD.

Microbac Laboratories Inc. Ohio Valley Division Analyst List March 5, 2012

Microbac Laboratories Inc. List of Valid Qualifiers March 05, 2012

Qualkey: DOD

Qualifier	Description
*	
	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A B	See the report narrative
B1	The reported result is associated with a contaminated method blank. Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in method blank at or above the method reporting limit Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
1	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value; the analyte concentration was greater than the highest standard
J	Estimated value; the analyte concentration was less than the LOQ.
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND I	Not detected at or above the reporting limit (RL).
ND, L ND, S	Not detected; sample reporting limit (RL) elevated due to interference Not detected; analyzed by method of standard addition (MSA)
ND, S NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S Z	Exceeds regulatory limit; method of standard additions (MSA) Cannot be resolved from isomer - see below
۷	Carrior no resolved from isother - see nerow

^{***}Special Notes for Organic Analytes



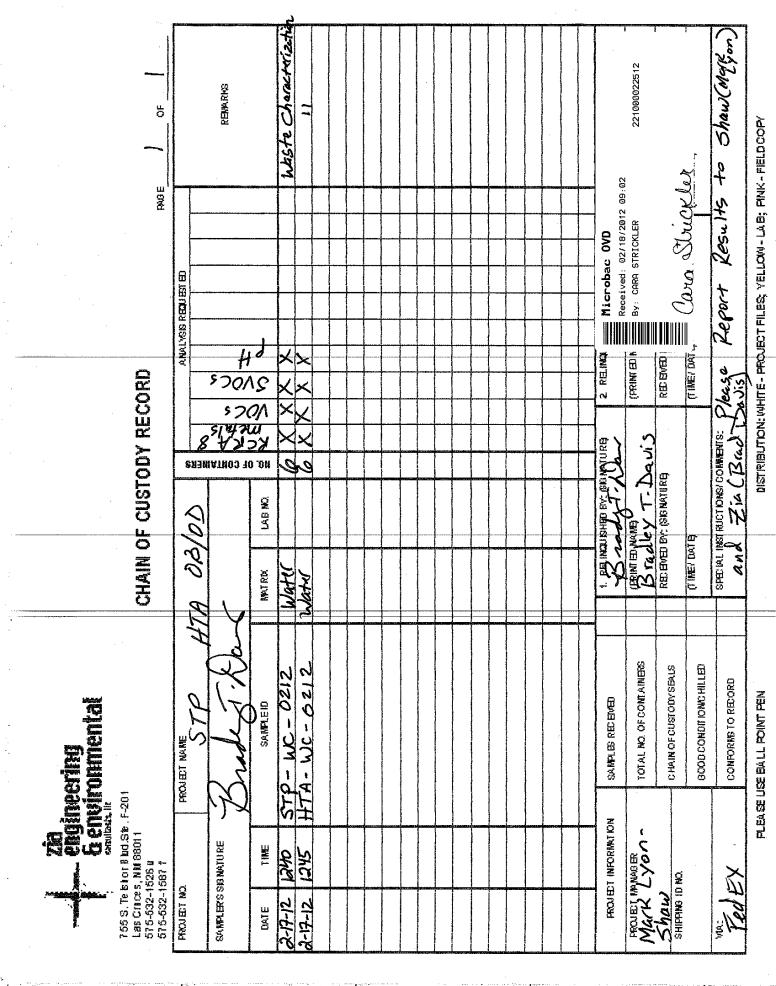
Microbac Laboratories Inc. List of Valid Qualifiers March 05, 2012

ev: DOD
: DOD

- Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
- 3. N-nitrosodiphenylamine cannot be separated from diphenylamine.

- 3. Methylphenol and 4-Methylphenol are unresolvable compounds.
 5. m-Xylene and p-Xylene are unresolvable compounds.
 6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

Microbac



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Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L12020592

Account: 3005 **Project:** 3005.011

Samples: 3

Due Date: 28-FEB-2012

Samplenum Container ID Products

L12020592-01 939985

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	На
1	LOGIN	COOLER	V1	20-FEB-2012 12:01	JKT		<2
2	ANALYZ	V1	ORG4	20-FEB-2012 13:27	MES	RLK	

Bottle: 2

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	Нq
1	LOGIN	COOLER	V1	20-FEB-2012 12:01	JKT		<2
2	ANALYZ	V1	ORG4	20-FEB-2012 13:27	MES	RLK	

<u>Samplenum</u> <u>Container ID</u> <u>Products</u>

L12020592-01 939986 826-SPE 827-SPE

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	рН
1	LOGIN	COOLER	W1	20-FEB-2012 12:01	JKT		
2	PREP	W1	EXT	24-FEB-2012 06:44	CEB	AZH	
3	ANALYZ*	EXT	SEMI	24-FEB-2012 16:03	ECL	CEB	

*Sample extract/digestate/leachate

Bottle: 2

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	рН
1	LOGIN	COOLER	W1	20-FEB-2012 12:01	JKT		
2	STORE	W1	A1	28-FEB-2012 12:27	BLG	BLG	

*Sample extract/digestate/leachate

<u>Samplenum</u> <u>Container ID</u> <u>Products</u> <u>L12020592-01</u> 939987 COR-PH

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	Нq
1	LOGIN	COOLER	W1	20-FEB-2012 12:01	JKT		
2	ANALYZ	W1	WET	20-FEB-2012 14:35	DIH	JKS	
3	STORE	WET	A1	21-FEB-2012 08:22	JKS	DLP	

A1 - Sample Archive (COLD)

A2 - Sample Archive (AMBIENT)

F1 - Volatiles Freezer in Login

V1 - Volatiles Refrigerator in Login

W1 - Walkin Cooler in Login



Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L12020592 **Account:** 3005

Project: 3005.011

Samples: 3

Due Date: 28-FEB-2012

Samplenum Container ID Products

L12020592-01 939988 AG AS-AX BA CD CR HG PB-AX SE-MS

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	На
1	LOGIN	COOLER	W1	20-FEB-2012 12:01	JKT		
2	PREP	W1	DIG	21-FEB-2012 05:30	REK	ATZ	
3	ANALYZ*	DIG	METALS	21-FEB-2012 11:19	EDL	REK	
4	STORE	DIG	A1	21-FEB-2012 12:38	JKS	ERP	

^{*}Sample extract/digestate/leachate

Samplenum Container ID Products

L12020592-02 939989

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	рН
1	LOGIN	COOLER	V1	20-FEB-2012 12:01	JKT		<2
2	ANALYZ	V1	ORG4	20-FEB-2012 13:27	MES	RLK	

Bottle: 2

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	Нq
1	LOGIN	COOLER	V1	20-FEB-2012 12:01	JKT		<2
2	ANALYZ	V1	ORG4	20-FEB-2012 13:27	MES	RLK	

Samplenum Container ID Products

L12020592-02 939990 826-SPE 827-SPE

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	рН
1	LOGIN	COOLER	W1	20-FEB-2012 12:01	JKT		
2	PREP	W1	EXT	24-FEB-2012 06:44	CEB	AZH	
3	ANALYZ*	EXT	SEMI	24-FEB-2012 16:03	ECL	CEB	

*Sample extract/digestate/leachate

Bottle: 2

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	рН
1	LOGIN	COOLER	W1	20-FEB-2012 12:01	JKT		
2	STORE	W1	A1	28-FEB-2012 12:27	BLG	BLG	

^{*}Sample extract/digestate/leachate

A1 - Sample Archive (COLD)

A2 - Sample Archive (AMBIENT)

F1 - Volatiles Freezer in Login

V1 - Volatiles Refrigerator in Login

W1 - Walkin Cooler in Login



Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L12020592

Account: 3005 **Project:** 3005.011

Samples: 3

Due Date: 28-FEB-2012

 Samplenum
 Container ID
 Products

 L12020592-02
 939991
 COR-PH

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	рН
1	LOGIN	COOLER	W1	20-FEB-2012 12:01	JKT		
2	ANALYZ	W1	WET	20-FEB-2012 14:35	DIH	JKS	
3	STORE	WET	A1	21-FEB-2012 08:22	JKS	DLP	

<u>Samplenum</u> <u>Container ID</u> <u>Products</u>

L12020592-02 939992 AG AS-AX BA CD CR HG PB-AX SE-MS

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	рН
1	LOGIN	COOLER	W1	20-FEB-2012 12:01	JKT		
2	PREP	W1	DIG	21-FEB-2012 05:30	REK	ATZ	
3	ANALYZ*	DIG	METALS	21-FEB-2012 11:19	EDL	REK	
4	STORE	DIG	A1	21-FEB-2012 12:38	JKS	ERP	

^{*}Sample extract/digestate/leachate

 Samplenum
 Container ID
 Products

 L12020592-03
 939993
 826-SPE

Bottle: 1

Seq.	Purpose	From	То	Date/Time	Accept	Relinquish	На
1	LOGIN	COOLER	V1	20-FEB-2012 12:01	JKT		<2
2	ANALYZ	V1	ORG4	20-FEB-2012 13:27	MES	RLK	

Bottle: 2									
Se	q. Purpose	From	То	Date/Time	Accept	Relinquish	Нq		
1	LOGIN	COOLER	V1	20-FEB-2012 12:01	JKT		<2		
2	ANALYZ	V1	ORG4	20-FEB-2012 13:27	MES	RLK			

A1 - Sample Archive (COLD)A2 - Sample Archive (AMBIENT)F1 - Volatiles Freezer in Login

V1 - Volatiles Refrigerator in Login

W1 - Walkin Cooler in Login

